



Revision Number: 005.0

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**1. PRODUCT AND COMPANY IDENTIFICATION**

|  |   |
|--|---|
| <b>Product name:</b> Hysol 9460 RESIN  | <b>IDH number:</b> 702149   |
| <b>Product type:</b> Epoxy resin   | <b>Item number:</b> 83129_AA9281  |
| <b>Restriction of Use:</b> None identified   | <b>Region:</b> United States  |
| <b>Company address:</b><br>Henkel Corporation<br>One Henkel Way<br>Rocky Hill, Connecticut 06067 | <b>Contact information:</b><br>Telephone: (860) 571-5100<br>MEDICAL EMERGENCY Phone: Poison Control Center<br>1-877-671-4608 (toll free) or 1-303-592-1711<br>TRANSPORT EMERGENCY Phone: CHEMTREC<br>1-800-424-9300 (toll free) or 1-703-527-3887<br>Internet: www.henkelna.com |

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

**WARNING:** CAUSES SKIN IRRITATION.  
MAY CAUSE AN ALLERGIC SKIN REACTION.  
CAUSES SERIOUS EYE IRRITATION.

| HAZARD CLASS       | HAZARD CATEGORY |
|--------------------|-----------------|
| SKIN IRRITATION    | 2               |
| EYE IRRITATION     | 2A              |
| SKIN SENSITIZATION | 1               |

**PICTOGRAM(S)**



**Precautionary Statements**

|                    |   |
|--------------------|---|
| <b>Prevention:</b> | Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear eye and face protection. Wear protective gloves.  |
| <b>Response:</b>   | IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing. |
| <b>Storage:</b>    | Not prescribed  |
| <b>Disposal:</b>   | Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.   |

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

| Hazardous Component(s) | CAS Number | Percentage* |
|------------------------|------------|-------------|
|------------------------|------------|-------------|

|  |             |          |
|--|-------------|----------|
| Epoxy resin  | Proprietary | 60 - 100 |
| Quartz (SiO <sub>2</sub> )                             | 14808-60-7  | 10 - 30  |
| Oxirane, 2,2'-(1,4-cyclohexanedilbis (methylenedioxy)) | 14228-73-0  | 5 - 10   |
| Treated fumed silica                                   | 67762-90-7  | 5 - 10   |
| Titanium dioxide                                       | 13463-67-7  | 0.1 - 1  |
| Microcrystalline Silica                                | 1317-95-9   | 0.1 - 1  |
| Epoxy resin  | Proprietary | 0.1 - 1  |

\* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

#### 4. FIRST AID MEASURES

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.  |
| <b>Skin contact:</b> | Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. If symptoms develop and persist, get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. |
| <b>Eye contact:</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.   |
| <b>Ingestion:</b>    | DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.   |
| <b>Symptoms:</b>     | See Section 11.   |

#### 5. FIRE FIGHTING MEASURES

|   |   |
|---|---|
| <b>Extinguishing media:</b>               | Water spray (fog), foam, dry chemical or carbon dioxide.  |
| <b>Special firefighting procedures:</b>   | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.  |
| <b>Unusual fire or explosion hazards:</b> | In case of fire, keep containers cool with water spray. Closed containers may rupture (due to build up of pressure) when exposed to extreme heat. |
| <b>Hazardous combustion products:</b>     | Oxides of carbon. Acids. Aldehydes. Irritating vapors.  |

#### 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

|                                   |  |
|-----------------------------------|--|
| <b>Environmental precautions:</b> | Do not allow product to enter sewer or waterways.  |
| <b>Clean-up methods:</b>          | Ensure adequate ventilation. Wear appropriate personal protective equipment. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up spilled material and place in a closed container for disposal. |

## 7. HANDLING AND STORAGE

**Handling:** Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Use only with adequate ventilation. Keep container closed.

**Storage:** Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Keep away from heat, spark and flame. Store in original container until ready to use.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

| Hazardous Component(s)                            | ACGIH TLV  | OSHA PEL   | AIHA WEEL | OTHER |
|---|--|--|-----------|-------|
| Epoxy resin                                       | None   | None   | None      | None  |
| Quartz (SiO <sub>2</sub> )                        | 0.025 mg/m <sup>3</sup> TWA<br>Respirable fraction.  | 2.4 MPPCF TWA<br>Respirable.<br>0.1 mg/m <sup>3</sup> TWA<br>Respirable.<br>0.3 mg/m <sup>3</sup> TWA Total<br>dust. | None      | None  |
| Oxirane, 2,2'-[1,4-cyclohexanedilbis (methyleneox | None   | None   | None      | None  |
| Treated fumed silica                              | 10 mg/m <sup>3</sup> TWA<br>Inhalable dust.<br>3 mg/m <sup>3</sup> TWA<br>Respirable fraction. | 15 mg/m <sup>3</sup> TWA Total<br>dust.<br>5 mg/m <sup>3</sup> TWA<br>Respirable fraction.                           | None      | None  |
| Titanium dioxide                                  | 10 mg/m <sup>3</sup> TWA   | 15 mg/m <sup>3</sup> PEL Total<br>dust.  | None      | None  |
| Microcrystalline Silica                           | 0.025 mg/m <sup>3</sup> TWA<br>Respirable fraction.  | None   | None      | None  |
| Epoxy resin                                       | None   | None   | None      | None  |

**Engineering controls:** Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

**Respiratory protection:** Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.

**Eye/face protection:** Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.

**Skin protection:** Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|  |  |
|--|--|
| <b>Physical state:</b>                     | Liquid, Paste                            |
| <b>Color:</b>                              | White                                    |
| <b>Odor:</b>                               | Mild                                     |
| <b>Odor threshold:</b>                     | Not available.                           |
| <b>pH:</b>                                 | Not applicable                           |
| <b>Vapor pressure:</b>                     | Negligible                               |
| <b>Boiling point/range:</b>                | Not available.                           |
| <b>Melting point/ range:</b>               | Not available.                           |
| <b>Specific gravity:</b>                   | > 1                                      |
| <b>Vapor density:</b>                      | Not available.                           |
| <b>Flash point:</b>                        | > 149 °C (> 300.2 °F) Tagliabue open cup |
| <b>Flammable/Explosive limits - lower:</b> | Not available.                           |
| <b>Flammable/Explosive limits - upper:</b> | Not available.                           |

|   |   |
|---|---|
| <b>Autoignition temperature:</b>                | Not available.  |
| <b>Evaporation rate:</b>                        | Not available.  |
| <b>Solubility in water:</b>                     | Insoluble   |
| <b>Partition coefficient (n-octanol/water):</b> | Not available.  |
| <b>VOC content:</b>                             | < 1 %; < 10 g/l (value for resin and hardener together) (estimated) |
| <b>Viscosity:</b>                               | Not available.  |
| <b>Decomposition temperature:</b>               | Not available.  |

## 10. STABILITY AND REACTIVITY

|  |   |
|--|---|
| <b>Stability:</b>                        | Stable under normal conditions of storage and use.  |
| <b>Hazardous reactions:</b>              | None under normal processing.   |
| <b>Hazardous decomposition products:</b> | Oxides of carbon. Acids. Aldehydes. Irritating vapors.  |
| <b>Incompatible materials:</b>           | Strong acids. Strong bases. Strong oxidizing agents. Amines. Water.   |
| <b>Reactivity:</b>                       | Not available.  |
| <b>Conditions to avoid:</b>              | Keep away from heat, ignition sources and incompatible materials. Protect from direct sunlight. Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately. Failure to observe these precautions may result in excessive heat build-up causing an exotherm. |

## 11. TOXICOLOGICAL INFORMATION

|                                     |                        |
|-------------------------------------|------------------------|
| <b>Relevant routes of exposure:</b> | Skin, Inhalation, Eyes |
|-------------------------------------|------------------------|

### Potential Health Effects/Symptoms

**Inhalation:** May cause irritation to nose and throat.  
**Skin contact:** Causes skin irritation. May cause allergic skin reaction.  
**Eye contact:** Causes serious eye irritation.  
**Ingestion:** Not expected under normal conditions of use.

| Hazardous Component(s)                                 | LD50s and LC50s | Immediate and Delayed Health Effects                                |
|--|-----------------|---|
| Epoxy resin  | None            | Allergen, Irritant  |
| Quartz (SiO <sub>2</sub> )                             | None            | Immune system, Lung, Some evidence of carcinogenicity               |
| Oxirane, 2,2'-(1,4-cyclohexanedilbis (methylenedioxy)) | None            | Allergen, Blood, Bone Marrow, Immune system, Irritant, Reproductive |
| Treated fumed silica                                   | None            | Irritant  |
| Titanium dioxide                                       | None            | Irritant, Respiratory, Some evidence of carcinogenicity             |
| Microcrystalline Silica                                | None            | Lung, Some evidence of carcinogenicity                              |
| Epoxy resin  | None            | No Data   |

| Hazardous Component(s)                                 | NTP Carcinogen                | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--|-------------------------------|-----------------|--|
| Epoxy resin  | No                            | No              | No                                       |
| Quartz (SiO <sub>2</sub> )                             | Known To Be Human Carcinogen. | Group 1         | No                                       |
| Oxirane, 2,2'-(1,4-cyclohexanedilbis (methylenedioxy)) | No                            | No              | No                                       |
| Treated fumed silica                                   | No                            | No              | No                                       |
| Titanium dioxide                                       | No                            | Group 2B        | No                                       |
| Microcrystalline Silica                                | Known To Be Human Carcinogen. | Group 1         | No                                       |
| Epoxy resin  | No                            | No              | No                                       |

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Not available.

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Follow all local, state, federal and provincial regulations for disposal.

**Hazardous waste number:** Not a RCRA hazardous waste.

## 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

### U.S. Department of Transportation Ground (49 CFR)

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

### International Air Transportation (ICAO/IATA)

**Proper shipping name:** Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin resin)  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III

**Water Transportation (IMO/IMDG)**

**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A Epichlorhydrin resin)  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III  
**Marine pollutant:** Bisphenol-A Epichlorhydrin resin

**15. REGULATORY INFORMATION****United States Regulatory Information**

**TSCA 8 (b) Inventory Status:** All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.  
**TSCA 12 (b) Export Notification:** None above reporting de minimis  
**CERCLA/SARA Section 302 EHS:** None above reporting de minimis  
**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health  
**CERCLA/SARA Section 313:** None above reporting de minimis  
**California Proposition 65:** This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

**Canada Regulatory Information**

**CEPA DSL/NDL Status:** All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

**16. OTHER INFORMATION**

**This safety data sheet contains changes from the previous version in sections:** New Safety Data Sheet format.

**Prepared by:** Rena Petrides, Regulatory Affairs Specialist  
**Issue date:** 08/06/2014

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